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## 1 [Energy efficiency: Localized algorithms for energy efficient topology in wireless ad hoc networks](#)



Wen-Zhan Song, Yu Wang, Xiang-Yang Li, Ophir Frieder

May 2004 **Proceedings of the 5th ACM international symposium on Mobile ad hoc networking and computing MobiHoc '04**

Publisher: ACM Press

Full text available: pdf(207.01 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We propose several novel localized algorithms to construct energy efficient routing structures for homogeneous wireless ad hoc networks, where all nodes have same maximum transmission ranges. Our first structure has the following attractive properties: (1) It is energy efficient: given any two nodes  $u$  and  $v$ , there is a path connecting them in the structure with total energy cost at most  $p = 1/1 - (2\sin n/k)^8$  times of the energy cost of any path connecting th ...

**Keywords:** bounded degree, planar, spanner, topology control, wireless ad hoc networks

## 2 [Routing with topology aggregation in delay-bandwidth sensitive networks](#)

King-Shan Lui, Klara Nahrstedt, Shigang Chen

February 2004 **IEEE/ACM Transactions on Networking (TON)**, Volume 12 Issue 1

Publisher: IEEE Press

Full text available: pdf(457.02 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Routing is a process of finding a network path from a source node to a destination node. The execution time and the memory requirement of a routing algorithm increase with the size of the network. In order to deal with the scalability problem, large networks are often structured hierarchically by grouping nodes into different domains. The internal topology of each domain is then aggregated into a simple topology that reflects the cost of routing across that domain. This process is called topolog ...

**Keywords:** QoS routing, delay-bandwidth sensitive networks, hierarchical routing, topology aggregation

## 3 [Developments in simulation and instrumentation: Topology discovery for public IPv6 networks](#)



Daniel G. Waddington, Fangzhe Chang, Ramesh Viswanathan, Bin Yao

July 2003 **ACM SIGCOMM Computer Communication Review**, Volume 33 Issue 3

Publisher: ACM Press

Full text available: pdf(182.34 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



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Relevance scale ☐ ☐ ☐ ☐ ☐**1** [A performance monitoring application for distributed interactive simulations \(DIS\)](#)

David B. Cavitt, C. Michael Overstreet, Kurt J. Maly

December 1997 **Proceedings of the 29th conference on Winter simulation WSC '97****Publisher:** ACM Press, IEEE Computer SocietyFull text available: [pdf\(922.38 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**2** [Performance monitor for a relational information system](#)

N. N. Oliver, John D. Joyce

October 1976 **Proceedings of the annual conference ACM 76****Publisher:** ACM PressFull text available: [pdf\(486.84 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Although some relational information systems have recently become available for production use, very few, if any of them, contain facilities to collect performance data. This paper describes a method for implementing a performance monitor and some of the data collected by this performance monitor which was recently installed in the REGIS (Relational General Information System). REGIS is currently being used within General Motors. The performance monitor is used to collect data about the use ...

**3** [Computerized performance monitoring systems: use and abuse](#)

R. H. Irving, C. A. Higgins, F. R. Safayeni

August 1986 **Communications of the ACM**, Volume 29 Issue 8**Publisher:** ACM PressFull text available: [pdf\(834.20 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

An exploratory study of computerized performance monitoring and control systems reveals both positive and negative effects. Responses of 50 clerical workers from 2 organizations with computerized monitoring were compared to 94 individuals from 3 organizations in similar jobs without computerized monitoring. The results indicate that computerized monitoring is associated with perceived increases in office productivity, more accurate and complete assessment of workers' performance, and higher ...

**4** [Middleware performance analysis: Performance monitoring of java applications](#)

M. Harkema, D. Quartel, B. M. M. Gijzen, R. D. van der Mei

July 2002 **Proceedings of the 3rd international workshop on Software and performance WOSP '02****Publisher:** ACM PressFull text available: [pdf\(219.69 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Over the past few years, Java has evolved into a mature platform for developing

Terms used **performance monitoring graphical representation**

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## 1 [ChaosMON—application-specific monitoring and display of performance information for parallel and distributed systems](#)

Carol Kilpatrick, Karsten Schwan

December 1991 **ACM SIGPLAN Notices , Proceedings of the 1991 ACM/ONR workshop on Parallel and distributed debugging PADD '91**, Volume 26 Issue 12

Publisher: ACM Press

Full text available:  pdf(1.08 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

## 2 [Performance analysis using the MIPS R10000 performance counters](#)

Marco Zagha, Brond Larson, Steve Turner, Marty Itzkowitz

November 1996 **Proceedings of the 1996 ACM/IEEE conference on Supercomputing (CDROM) Supercomputing '96**

Publisher: IEEE Computer Society

Full text available:  pdf(200.39 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Tuning supercomputer application performance often requires analyzing the interaction of the application and the underlying architecture. In this paper, we describe support in the MIPS R10000 for non-intrusively monitoring a variety of processor events -- support that is particularly useful for characterizing the dynamic behavior of multi-level memory hierarchies, hardware-based cache coherence, and speculative execution. We first explain how performance data is collected using an integrate ...


**Keywords:** performance analysis, profiling tools, hardware performance counters, MIPS R10000, SGI Power Challenge

## 3 [A relational approach to monitoring complex systems](#)

Richard Snodgrass

May 1988 **ACM Transactions on Computer Systems (TOCS)**, Volume 6 Issue 2

Publisher: ACM Press

Full text available:  pdf(3.42 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Monitoring is an essential part of many program development tools, and plays a central role in debugging, optimization, status reporting, and reconfiguration. Traditional monitoring techniques are inadequate when monitoring complex systems such as multiprocessors or distributed systems. A new approach is described in which a historical database forms the conceptual basis for the information processed by the monitor. This approach permits advances in specifying the low-level data collection, ...

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